

| L Number | Hits  | Search Text   | DB    | Time stamp          |
|----------|-------|---|-------|---------------------|
| 1        | 2508  | (sponge or delayed or green).ti.  | USPAT | 2003/02/11<br>14:34 |
| 2        | 1447  | (coke or coking or felxicoking).ti.   | USPAT | 2003/02/11<br>14:18 |
| 3        | 47    | ((sponge or delayed or green).ti.) and<br>((coke or coking or felxicoking).ti.)   | USPAT | 2003/02/11<br>18:03 |
| 4        | 12    | (adsorb\$5 or sorb\$4) near5 (increas\$3 or<br>improv\$4 or ameliorate\$2 or produced or<br>producing) near5 (coke)   | USPAT | 2003/02/11<br>14:40 |
| 5        | 0     | ((sponge or delayed or green).ti.) and<br>((coke or coking or felxicoking).ti.))<br>and ((adsorb\$5 or sorb\$4) near5<br>(increas\$3 or improv\$4 or ameliorate\$2 or<br>produced or producing) near5 (coke))   | USPAT | 2003/02/11<br>14:33 |
| 6        | 1206  | (sponge or delayed or green) near9 (coke<br>or coking)  | USPAT | 2003/02/11<br>14:34 |
| 7        | 3     | ((adsorb\$5 or sorb\$4) near5 (increas\$3 or<br>improv\$4 or ameliorate\$2 or produced or<br>producing) near5 (coke)) and ((sponge or<br>delayed or green) near9 (coke or coking))  | USPAT | 2003/02/11<br>14:34 |
| 9        | 0     | ((sponge or delayed or green).ti.) and<br>((coke or coking or felxicoking).ti.))<br>and ((adsorb\$5 or sorb\$4) near9<br>(increas\$3 or improv\$4 or ameliorate\$2 or<br>produced or producing) near9 (coke or<br>coking or flexicoking))   | USPAT | 2003/02/11<br>14:43 |
| 10       | 7     | ((sponge or delayed or green) near9 (coke<br>or coking)) and ((adsorb\$5 or sorb\$4)<br>near9 (increas\$3 or improv\$4 or<br>ameliorate\$2 or produced or producing)<br>near9 (coke or coking or flexicoking))  | USPAT | 2003/02/11<br>14:46 |
| 11       | 41375 | (clean\$3 or purif\$4 or (remov\$4 near12<br>(mercury or cyanide or toxic))) near12<br>(gas or gaseous or vapor or emission)  | USPAT | 2003/02/11<br>14:52 |
| 12       | 191   | ((sponge or delayed or green) near9 (coke<br>or coking)) and ((clean\$3 or purif\$4 or<br>(remov\$4 near12 (mercury or cyanide or<br>toxic))) near12 (gas or gaseous or vapor<br>or emission) )   | USPAT | 2003/02/11<br>14:53 |
| 13       | 191   | ((clean\$3 or purif\$4 or (remov\$4 near12<br>(mercury or cyanide or toxic))) near12<br>(gas or gaseous or vapor or emission) )<br>and (((sponge or delayed or green) near9<br>(coke or coking)) and ((clean\$3 or<br>purif\$4 or (remov\$4 near12 (mercury or<br>cyanide or toxic))) near12 (gas or<br>gaseous or vapor or emission) ))  | USPAT | 2003/02/11<br>15:05 |
| 14       | 1     | ((adsorb\$5 or sorb\$4) near5 (increas\$3 or<br>improv\$4 or ameliorate\$2 or produced or<br>producing) near5 (coke)) and (((clean\$3<br>or purif\$4 or (remov\$4 near12 (mercury or<br>cyanide or toxic))) near12 (gas or<br>gaseous or vapor or emission) ) and<br>(((sponge or delayed or green) near9<br>(coke or coking)) and ((clean\$3 or<br>purif\$4 or (remov\$4 near12 (mercury or<br>cyanide or toxic))) near12 (gas or<br>gaseous or vapor or emission) ))) | USPAT | 2003/02/11<br>14:54 |
| 15       | 6     | ((sponge or delayed or green).ti.) and<br>((coke or coking or felxicoking).ti.))<br>and (((clean\$3 or purif\$4 or (remov\$4<br>near12 (mercury or cyanide or toxic)))<br>near12 (gas or gaseous or vapor or<br>emission) ) and (((sponge or delayed or<br>green) near9 (coke or coking)) and<br>((clean\$3 or purif\$4 or (remov\$4 near12<br>(mercury or cyanide or toxic))) near12<br>(gas or gaseous or vapor or emission) )))                                      | USPAT | 2003/02/11<br>14:54 |

|    |       |  |       |                     |
|----|-------|--|-------|---------------------|
| 16 | 32317 | sponge   | USPAT | 2003/02/11<br>15:05 |
| 17 | 44    | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))) and sponge  | USPAT | 2003/02/11<br>15:17 |
| 18 | 147   | ((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) not (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))) and sponge)                         | USPAT | 2003/02/11<br>15:17 |
| 19 | 1222  | 208/128-132.cc1s.  | USPAT | 2003/02/11<br>15:17 |
| 20 | 13    | (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) not (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))) and sponge)) and 208/128-132.cc1s. | USPAT | 2003/02/11<br>15:18 |
| 21 | 5     | scaltech.asn.  | USPAT | 2003/02/11<br>15:21 |
| 22 | 1     | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))) and scaltech.asn.   | USPAT | 2003/02/11<br>15:20 |
| 23 | 2     | ((sponge or delayed or green) near9 (coke or coking)) and scaltech.asn.  | USPAT | 2003/02/11<br>15:22 |
| 24 | 1     | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and scaltech.asn.  | USPAT | 2003/02/11<br>15:22 |
| 25 | 118   | chemical\$4 near3 carboniz\$6  | USPAT | 2003/02/11<br>15:24 |
| 26 | 2     | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and (chemical\$4 near3 carboniz\$6)   | USPAT | 2003/02/11<br>15:28 |
| 27 | 422   | (activat\$3 near4 (coke or carbon)).ti.  | USPAT | 2003/02/11<br>15:29 |
| 28 | 6     | ((sponge or delayed or green) near9 (coke or coking)) and ((activat\$3 near4 (coke or carbon)).ti.)  | USPAT | 2003/02/11<br>15:35 |

|    |       |   |       |                  |
|----|-------|---|-------|------------------|
| 29 | 2     | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and (chemical\$4 near3 carboniz\$6)  | USPAT | 2003/02/11 15:36 |
| 30 | 0     | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and 208/128-132.ccls.  | USPAT | 2003/02/11 15:36 |
| 31 | 192   | (impregnat\$3 or inject\$3 or incorporat\$4) near12 (sulfur or agent or chemical or ion or ionizing) near12 (coke or coking or quench)  | USPAT | 2003/02/11 15:40 |
| 32 | 4     | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and ((impregnat\$3 or inject\$3 or incorporat\$4) near12 (sulfur or agent or chemical or ion or ionizing) near12 (coke or coking or quench)) | USPAT | 2003/02/11 15:46 |
| 33 | 362   | (hydroprocess\$ or hydrogenat\$4) near6 coke  | USPAT | 2003/02/11 15:47 |
| 34 | 4     | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and ((hydroprocess\$ or hydrogenat\$4) near6 coke)   | USPAT | 2003/02/11 15:51 |
| 35 | 5     | (asphaltic or asphaltenic) adj coke   | USPAT | 2003/02/11 15:52 |
| 36 | 15    | thermal adj coke  | USPAT | 2003/02/11 15:57 |
| 37 | 1     | ((asphaltic or asphaltenic) adj coke) and (thermal adj coke)  | USPAT | 2003/02/11 15:55 |
| 38 | 158   | sncri   | USPAT | 2003/02/11 15:57 |
| 40 | 6     | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (sncri and coke)  | USPAT | 2003/02/11 15:59 |
| 41 | 16    | hydroprocess\$3 near2 coke  | USPAT | 2003/02/11 16:04 |
| 42 | 3402  | 208/400-432.ccls. or 208/128-132.ccls.  | USPAT | 2003/02/11 16:05 |
| 43 | 55    | ((hydroprocess\$ or hydrogenat\$4) near6 coke) and (208/400-432.ccls. or 208/128-132.ccls.)   | USPAT | 2003/02/11 16:36 |
| 44 | 1     | 3817853.bn.   | USPAT | 2003/02/11 17:09 |
| 45 | 1     | 3817853.bn.   | USPAT | 2003/02/11 17:54 |
| 46 | 1230  | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.) or 208/128-132.ccls.   | USPAT | 2003/02/11 18:03 |
| 47 | 6082  | catal\$5 near10 coke  | USPAT | 2003/02/11 18:04 |
| 49 | 3466  | (petroleum or green or sponge or delayed) near5 coke  | USPAT | 2003/02/11 18:06 |
| 50 | 53    | (((((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) or 208/128-132.ccls.) and (catal\$5 near10 coke)) and ((petroleum or green or sponge or delayed) near5 coke)   | USPAT | 2003/02/11 18:17 |
| 51 | 11675 | (volatile or VCM) near3 (content or amount or composition)  | USPAT | 2003/02/11 18:20 |

|    |    |   |       |                     |
|----|----|---|-------|---------------------|
| 52 | 9  | (((((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) or 208/128-132.ccls.) and (catal\$5 near10 coke)) and ((petroleum or green or sponge or delayed) near5 coke)) and ((volatile or VCM) near3 (content or amount or composition)) | USPAT | 2003/02/11<br>18:26 |
| 53 | 11 | ((volatile or VCM) near3 (content or amount or composition)) near12 sponge  | USPAT | 2003/02/11<br>18:27 |
| 54 | 79 | spon\$2 near2 coke  | USPAT | 2003/02/11<br>18:28 |
| 55 | 5  | ((volatile or VCM) near3 (content or amount or composition)) near12 ((volatile or VCM) near3 (content or amount or composition)) near12 sponge  | USPAT | 2003/02/11<br>18:29 |
| 56 | 1  | ((volatile or VCM) near3 (content or amount or composition)) near12 (spon\$2 near2 coke)  | USPAT | 2003/02/11<br>18:30 |
| 57 | 1  | ((volatile or VCM) near3 (content or amount or composition)) near20 (spon\$2 near2 coke)  | USPAT | 2003/02/11<br>18:32 |
| 58 | 1  | ((volatile or VCM) near3 (content or amount or composition)) near40 (spon\$2 near2 coke)  | USPAT | 2003/02/11<br>18:32 |
| 59 | 1  | ((volatile or VCM) near3 (content or amount or composition)) near80 (spon\$2 near2 coke)  | USPAT | 2003/02/11<br>18:32 |
| 60 | 1  | ((volatile or VCM) near3 (content or amount or composition)) near100 (spon\$2 near2 coke)   | USPAT | 2003/02/11<br>18:32 |
| 61 | 11 | ((volatile or VCM) near3 (content or amount or composition)) and (spon\$2 near2 coke)   | USPAT | 2003/02/11<br>18:32 |
| 48 | 94 | ((((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) or 208/128-132.ccls.) and (catal\$5 near10 coke)  | USPAT | 2003/02/11<br>19:36 |
| 62 | 1  | 5320739.pn.   | USPAT | 2003/02/11<br>19:37 |
| 63 | 0  | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) and 5320739.pn.   | USPAT | 2003/02/11<br>19:37 |
| 8  | 49 | (adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)  | USPAT | 2003/02/11<br>19:37 |
| 39 | 22 | sncri and coke  | USPAT | 2003/02/11<br>19:38 |

| L Number | Hits  | Search Text   | DB    | Time stamp          |
|----------|-------|---|-------|---------------------|
| 1        | 2508  | (sponge or delayed or green).ti.  | USPAT | 2003/02/11<br>14:34 |
| 2        | 1447  | (coke or coking or felxicoking).ti.   | USPAT | 2003/02/11<br>14:18 |
| 3        | 47    | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)  | USPAT | 2003/02/11<br>14:30 |
| 4        | 12    | (adsorb\$5 or sorb\$4) near5 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near5 (coke)   | USPAT | 2003/02/11<br>14:40 |
| 5        | 0     | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) and ((adsorb\$5 or sorb\$4) near5 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near5 (coke))   | USPAT | 2003/02/11<br>14:33 |
| 6        | 1206  | (sponge or delayed or green) near9 (coke or coking)   | USPAT | 2003/02/11<br>14:34 |
| 7        | 3     | ((adsorb\$5 or sorb\$4) near5 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near5 (coke)) and ((sponge or delayed or green) near9 (coke or coking))   | USPAT | 2003/02/11<br>14:34 |
| 8        | 49    | (adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)  | USPAT | 2003/02/11<br>15:23 |
| 9        | 0     | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) and ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking))  | USPAT | 2003/02/11<br>14:43 |
| 10       | 7     | ((sponge or delayed or green) near9 (coke or coking)) and ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking))  | USPAT | 2003/02/11<br>14:46 |
| 11       | 41375 | (clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission)  | USPAT | 2003/02/11<br>14:52 |
| 12       | 191   | ((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )   | USPAT | 2003/02/11<br>14:53 |
| 13       | 191   | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))   | USPAT | 2003/02/11<br>15:05 |
| 14       | 1     | ((adsorb\$5 or sorb\$4) near5 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near5 (coke)) and (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ))) | USPAT | 2003/02/11<br>14:54 |

# BYildirim\_Job\_1\_of\_1

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Date: 02/11/03

Time: 15:56:10

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**UserID: BYildirim\_Job\_1\_of\_1  
Printer: cp3\_10c03\_gbgwptr**

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| US006018090      | 10           | 10             | 0             | 1             |
| US005915311      | 6            | 6              | 0             | 1             |
| US005437851      | 6            | 6              | 0             | 1             |
| <b>Total (4)</b> | <b>27</b>    | <b>27</b>      | <b>0</b>      | <b>-</b>      |

# BYildirim\_Job\_1\_of\_1

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for  
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Printer: cp3\_10c03\_gbgwptr

Date: 02/11/03

Time: 15:59:16

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| US005915311 | 6              | 1 - 6      | 1      |
| US005437851 | 6              | 1 - 6      | 1      |
| Total (4)   | 27             | -          | -      |

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**UserID: BYildirim\_Job\_1\_of\_1  
Printer: cp3\_10c03\_gbgwptr**

**Summary**

| <b>Document</b>  | <b>Pages</b> | <b>Printed</b> | <b>Missed</b> | <b>Copies</b> |
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| US003617481      | 7            | 7              | 0             | 1             |
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**UserID: BYildirim\_Job\_1\_of\_1  
Printer: cp3\_10c03\_gbgwptr**

**Summary**

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| US005320739      | 4            | 4              | 0             | 1             |
| <b>Total (1)</b> | <b>4</b>     | <b>4</b>       | <b>0</b>      | <b>-</b>      |

|    |       |   |       |                  |
|----|-------|---|-------|------------------|
| 15 | 6     | ((sponge or delayed or green).ti.) and ((coke or coking or felxicoking).ti.)) and (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) sponge   | USPAT | 2003/02/11 14:54 |
| 16 | 32317 |   | USPAT | 2003/02/11 15:05 |
| 17 | 44    | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) and sponge  | USPAT | 2003/02/11 15:17 |
| 18 | 147   | ((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) not (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) and sponge)                         | USPAT | 2003/02/11 15:17 |
| 19 | 1222  | 208/128-132.cc1s.   | USPAT | 2003/02/11 15:17 |
| 20 | 13    | (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) not (((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) and sponge)) and 208/128-132.cc1s. | USPAT | 2003/02/11 15:18 |
| 21 | 5     | scaltech.asn.   | USPAT | 2003/02/11 15:21 |
| 22 | 1     | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (((sponge or delayed or green) near9 (coke or coking)) and ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) )) and scaltech.asn.   | USPAT | 2003/02/11 15:20 |
| 23 | 2     | ((sponge or delayed or green) near9 (coke or coking)) and scaltech.asn.   | USPAT | 2003/02/11 15:22 |
| 24 | 1     | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and scaltech.asn.   | USPAT | 2003/02/11 15:22 |
| 25 | 118   | chemical\$4 near3 carboniz\$6   | USPAT | 2003/02/11 15:24 |

|    |      |   |       |                  |
|----|------|---|-------|------------------|
| 26 | 2    | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and (chemical\$4 near3 carboniz\$6)  | USPAT | 2003/02/11 15:28 |
| 27 | 422  | (activat\$3 near4 (coke or carbon)).ti.   | USPAT | 2003/02/11 15:29 |
| 28 | 6    | ((sponge or delayed or green) near9 (coke or coking)) and ((activat\$3 near4 (coke or carbon)).ti.)   | USPAT | 2003/02/11 15:35 |
| 29 | 2    | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and (chemical\$4 near3 carboniz\$6)  | USPAT | 2003/02/11 15:36 |
| 30 | 0    | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and 208/128-132.ccls.  | USPAT | 2003/02/11 15:36 |
| 31 | 192  | (impregnat\$3 or inject\$3 or incorporat\$4) near12 (sulfur or agent or chemical or ion or ionizing) near12 (coke or coking or quench)  | USPAT | 2003/02/11 15:40 |
| 32 | 4    | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and ((impregnat\$3 or inject\$3 or incorporat\$4) near12 (sulfur or agent or chemical or ion or ionizing) near12 (coke or coking or quench)) | USPAT | 2003/02/11 15:46 |
| 33 | 362  | (hydroprocess\$ or hydrogenat\$4) near6 coke  | USPAT | 2003/02/11 15:47 |
| 34 | 4    | ((adsorb\$5 or sorb\$4) near9 (increas\$3 or improv\$4 or ameliorate\$2 or produced or producing) near9 (coke or coking or flexicoking)) and ((hydroprocess\$ or hydrogenat\$4) near6 coke)   | USPAT | 2003/02/11 15:51 |
| 35 | 5    | (asphaltic or asphaltenic) adj coke   | USPAT | 2003/02/11 15:52 |
| 36 | 15   | thermal adj coke  | USPAT | 2003/02/11 15:57 |
| 37 | 1    | ((asphaltic or asphaltenic) adj coke) and (thermal adj coke)  | USPAT | 2003/02/11 15:55 |
| 38 | 158  | sncr  | USPAT | 2003/02/11 15:57 |
| 39 | 22   | sncr and coke   | USPAT | 2003/02/11 15:58 |
| 40 | 6    | ((clean\$3 or purif\$4 or (remov\$4 near12 (mercury or cyanide or toxic))) near12 (gas or gaseous or vapor or emission) ) and (sncr and coke)   | USPAT | 2003/02/11 15:59 |
| 41 | 16   | hydroprocess\$3 near2 coke  | USPAT | 2003/02/11 16:04 |
| 42 | 3402 | 208/400-432.ccls. or 208/128-132.ccls.  | USPAT | 2003/02/11 16:05 |
| 43 | 55   | ((hydroprocess\$ or hydrogenat\$4) near6 coke) and (208/400-432.ccls. or 208/128-132.ccls.)   | USPAT | 2003/02/11 16:36 |
| 44 | 1    | 3817853.pn.   | USPAT | 2003/02/11 16:36 |